

THE · TECH



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THE TECH

VOL. XIX.

BOSTON, NOVEMBER 16, 1899.

NO. 7.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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Editor in Chief, Monday, 12-1 P. M.
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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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THE two events of the college year in which undergraduate interest centres more than in any other, namely the annual Freshman-

Sophomore Football game and the Cane Rush, take place at the South End Ball Grounds tomorrow afternoon.

The Freshmen enter the Rush eager to win the privilege of carrying canes during their first year, a privilege denied them by the unwritten law of the Institute, until they have demonstrated their superiority in a trial of strength; the Sophomores are determined

that they shall never submit to the ignominy of being beaten by the "Freshies"; the Juniors are untiring in their efforts to give the Freshmen all the advantages gained in their two years of experience; the Seniors, while sympathizing with the unsophisticated Freshmen, cherish a hidden desire to see their one-time protégés successful. Although active participation is confined to the two lower classes, the upper classmen bear the responsibility of providing capable officials.

On this occasion the most pronounced "grind" takes an off day. Even the professors cannot refrain from laying aside for once the responsibility of the education of the American youth; perhaps a recollection of some class rush in years gone by prompts them to excuse the strangely microscopic attendance at recitations and lectures.

The management of the affair is assumed by the Football Association, and by common consent, the proceeds are devoted to the support of the Varsity team. This consideration alone should induce every man to make this year's attendance a record breaker.



WE congratulate the Foot Ball team upon having finished the season in a manner so decidedly in contrast to the early part of the season. The Tufts game although nominally a victory for Tufts, was in reality Tech's game, and was given

to Tufts only on the most glaring error in judgement by the referee. The game with

Brown, while lost with a large score, was sharply contested by Tech., our team being at a great disadvantage in point of weight. Repeated gains were made through the line but the team was not able to keep the pace long enough to score. When Brown's showing against the big colleges is considered, our defeat is not to be wondered at. As all the team, with the exception of Capt. Jouett, will probably return next year, the prospects for a winning team then are excellent.



THE Architectural Society has long followed a custom which is, in many ways, worthy of imitation by the other professional societies at Tech. It is the holding of social gatherings at fre-

quent intervals during the term such as the recent French dinner. It is a custom which brings the men together in a way most unlike the every-day meeting in the class and lecture room. It is a force acting against the tendency to work along in a rut, in that it makes the men feel that there is something in their work at Tech. other than a constant, solitary grind.

Such gatherings soon bring a man to the realization that the men he is working with are something more than *fellow-students*. He finds that they are good fellows and, as a result, an intercourse springs up which does much toward refining the work of all.

In view of the fact that such excellent results have been attained by one society in this way, it seems but fair to suppose that similar professional societies might derive great benefit from the scheme. The one thing to be avoided, however, is the degeneration of such a society into a mere eating club,



ANY of the men at Tech. do not appreciate the advantages we have in the departmental libraries and the various exhibition rooms. In this connection, the attention of students in general is called to the work now on exhibition in the Architectural Department on the fourth floor of Engineering B. Professor Despradelle has brought with him from Paris copies of the working drawings of the Bridge of Alexander III., one of the features of the Exposition of 1900. An elevation of the bridge is shown which extends along half the wall of the room. It was designed by Bernard and Cousin, the famous architects of Paris. This excellent combination of the useful with the beautiful should be seen by all the students who are working for a broad education.

C. H. and L., 21; M. I. T., 1903, 0.

ON November 7th the Freshman eleven was defeated by Cambridge High and Latin School 21-0. Although lack of practice and injuries to three regular players may account in some degree for the poor showing, 1903 failed to put up as strong a game as was expected. The defensive work was much better than the offensive. The tackles by Parker were one of the features of the game. As this was the first game of the season, however, there is still time for a brace, and the game should be looked upon not so much in the light of a defeat but as an opportunity to size up the men and to strengthen the weak points.

Not So Warm.

1st Shade (In Hades): Would n't that frost you?

2nd Shade: I hope so. What is it?

1st Shade: There's a Boston girl over there wrapped in a blanket.—Ex.

Tufts 10; Tech. 6.

THE Varsity lined up for its second game of the season with Tufts at the South End Grounds on Nov. 8th, and lost the game on questionable decision near the end of the second half by Referee Cuddy of Brown. Tufts entered the game with the idea of a second easy time but the resistance that was put up was a severe shock to her overconfidence. The game itself brought forth varied styles of play and was most interesting to watch. Tech. played in better form than she has shown this year. The men showed some of the '98 Varsity spirit and outplayed Tufts throughout. Maxson at quarter played brilliantly. He was in every play, he tackled fearlessly and his running the ball back on punts was spectacular. In punting he has never shown to better advantage. On his return of the kickoff after the first touchdown he lined the ball out for sixty yards. He also used his quarterback kick with excellent judgment. Behind the line Capt. Jouett, Allyn and Pond broke into the line fiercely and backed well on the defensive. The work of the linemen was generally good, especially at the tackles, Seyms being a good ground-gainer and Derby making some star tackles on defensive play. The center men opened up good holes and Storer and Shepard on the ends were a vast improvement over any other pair that has played there. The game was scrappy throughout and in the second half Symes was careless enough to get caught aiming a "right jolt" at one of his friends in brown and blue and was disqualified.

For Tufts the back field played the best game. In Perkins, Flagg and Burroughs, Tufts had three fast backs who showed up well on end plays. The linemen did not show up strongly. On the kickoff Maxson kicked to Tufts' 15-yard line. Tufts brought the ball back 15 yards and lost the ball on a fumble. Tech. then tried two downs for no gain and

lost the ball on a quarterback kick. Tufts then made 40 yards on tackles and end plays but fumbled the ball on Tech.'s 40-yard line. Jouett was then sent through left tackle for 8 yards, and Pond punted outside at Tufts' 45-yard line. Tufts sent Knight through center for 20 yards and Tech. was penalized 10 yards for off side play. Tech. then held for downs. Jouett started the ground gaining by a 5-yard gain at right tackle. Tech. carried the ball 20 yards by line plays until Pond kicked to Tufts' 45-yard line. Knight immediately returned the ball to Tech.'s 20-yard line. Tech. gained 15 yards more on line breaking and then Pond started a brilliant series of punts by a 45-yard kick to Tufts' 30-yard line. Three times in succession Knight kicked 45-yard punts on the first down. These were caught and returned by Maxson for 5-yard gains until the last punt, which he caught and recovered 30 yards by a sensational dodging run. Time was called immediately after.

Tufts kicked off in the second half to Seyms on the 25-yard line. Pond punted for 35 yards and Tech. secured the ball on a fumble. From here Tech. carried the ball down the field for a touchdown on a criss-cross for 20 yards by Allen, a quarter back kick for 15 yards and good line plunges for the rest of the distance. Maxson kicked the goal. Maxson returned the kickoff to Tufts' 30-yard line. Tufts here woke up and two end rushes for 20 and 40 yards and a tackle-play for 10 yards brought the ball to the 3-yard line. Knight carried it over. Kempton failed on the try for goal. After the next kickoff Tufts worked the ball down to the 35-yard line by end plays. Tufts was just about to put the ball in play when Referee Cuddy called time. The Tech. line eased up for a rest when suddenly Perkins shot around the left end with the ball, and before he could be stopped had touched it down behind the goal posts. Capt. Jouett kicked vigorously but

Referee Cuddy allowed the play and the game was lost to Tech. It is hard to see upon what grounds the play was allowed, as the ball was dead before the play was made. Kempton again failed on the try for goal. Time was called soon after the kickoff with the ball in Tufts' possession on her own 25-yard line. The line-up:

TUFTS.	M. I. T.
Burton, l.e.	r.e., Shepard
Kempton, l.t.	r.t., Derby
J. Butter, l.g.	r.g., Evans
Gale, c.	c., Laws
Capt. Pierce, r.g.	l.g., McDonald
Lamb, r.t.	l.t., Seyms (Godfrey)
P. Butter, r.e.	l.e., Storer (Capelle)
Almeida, (Yates) q.b.	q.b., Maxson
Burroughs, (Flagg) l.h.b.	r.h.b., Allyn
Perkins, r.h.b.	l.h.b., Capt. Jouett (Storer)
Knight, f.b.	f.b., Pond

Score: Tufts 10; Tech. 6. Touchdowns, Maxson, Knight, Perkins. Goals, Maxson. Umpire, Cuddy of Brown. Referee, Rockwell of M. I. T. Linesmen, McMaster, M. I. T.; Williams of Tufts.

Brown, 38; Tech., 0.

TECH. finished her football season last Saturday, when she was defeated by Brown 38-0. Brown had several substitutes in but had little trouble in scoring seven touchdowns. The general lightness of the Tech. team was only too apparent when contrasted with the size of the Brown men. Tech. fought well when she had the ball, but was unable to come within striking distance of Brown's goal. The men worked hard and pluckily but were no match for such a team as they were opposed to. Brown made several long end runs, and on one of these secured a touchdown by holding Tech. men. They showed a marked tendency to hold, but the umpire failed to penalize them, though his attention was several times called to the matter.

Brown kicked off to Maxson, who recovered ten yards before being downed. Tech. was unable to gain the necessary 5 yards and the ball went to Brown on downs. By end rushes and line plays the ball was advanced

to the 3-yard line, when Whittemore was pushed over for a touchdown. Richardson failed to kick the goal. Pond kicked off and Brown recovered 10 yards. The line was bucked till the ball was on Tech.'s 45-yard line, when Bayliss skirted the end for the second touchdown. Again Brown rushed down the field by line plays and Slocum secured the third score. Tech. held for downs and Richardson tried for a field goal but the kick was blocked by Laws. Tech. secured the ball but was unable to keep it and Melendy soon went over for another touchdown.

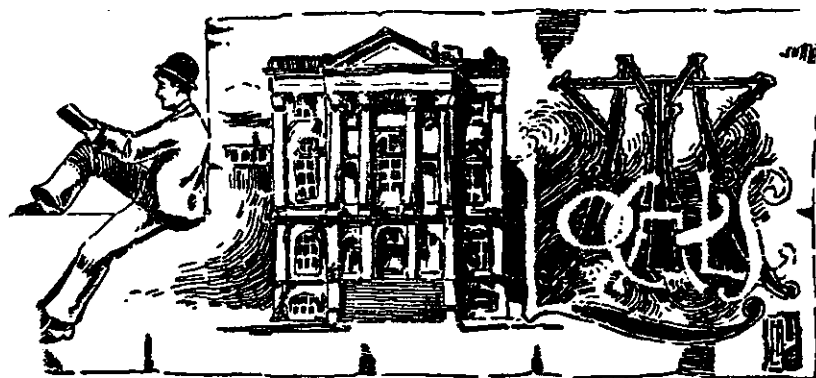
In the second half Tech. braced considerably and made repeated gains through the line but was finally held on downs. Barry scored on a long run aided by holding on Brown's part. Slocum, Whittemore and Detmers were sent through the line for repeated gains and two more touchdowns were added to the already long score before the half ended. The line up:

BROWN.	TECH.
Cann (Boynton), l.e.	r.e., Shepard
Stillman (Wheeler), t.	t., Derby
Whittemore, g.	g., Evans
Chesbro, c.	c., Laws
Parker (Detmers), r.g.	l.g., McDonald
Melendy, t.	t., Seyms
Bartlett, e.	e., Capelle
Richardson, q.b.	q.b., Maxson
Bayliss, l.h.b.	r.h.b., Jouett
Barry, r.h.b.	l.h.b., Allyn
Slocum, f. b.	f.b., Pond

Score: Brown 38; Tech. 0. Umpire, Phillips, Brown. Referee, Paine, Brown. 20 minute halves.

Tennis.

THE Annual Fall Tournament has been played off. The deciding set of the final match in the doubles was played on Wednesday, Nov. 1. Thatcher and Belcher won from Taylor and Wood by a score of 6-2. Belcher had improved greatly in his left hand play and the winners certainly deserved their victory after their up-hill struggle, handicapped by a useless right arm.



Allyn, Baker, Taylor, Strand, and Wood, all of 1902 have been elected to membership in the Architectural Society.

The Annual Catalogue of the Institute is nearing completion. Much of the material has already gone to the printers.

Students who desire to be assigned to the Drum Corps will hand their names to Lieut. Hamilton, together with a statement of their training and qualifications for the assignment.

The contract for making uniforms has been awarded the Continental Clothing House. The cost will be fourteen dollars and ten cents. All students who are required to attend drill must provide themselves with uniforms of the prescribed pattern.

The second "Smoke Talk" will be given at the Technology Club on Friday evening, November 17th, at 8 o'clock, by Mr. Edwin S. Crandon, financial editor of the *Boston Transcript*, on "Old Boston, England." Members may invite friends to these "smoke talks."

The 530th regular meeting of the Society of Arts was held on Thursday, Nov. 9, 1899, at 8 P. M. Mr. A. Lawrence Rotch, M. I. T., '84, Director of the Blue Hill Observatory, read a paper on "Use of Kites to Obtain Meteorological Data," illustrated by stereopticon. The lecture was heartily enjoyed by those present.

The seventh general meeting of the Society of Naval Architects and Marine Engineers will take place in New York City on Thursday and Friday of this week, and a banquet

will be held Friday evening at Delmonico's. Professor C. H. Peabody of the Institute, a member of the council, will read a paper on "Progressive Speed Trials of the U. S. S. *Manning*."

The Class of 1902 held its fourteenth meeting on Monday. A gavel was presented to ex-President Lombard as a token of the appreciation of the members for his year of service. President Bosworth made the presentation with a neat speech and Mr. Lombard accepted the gift in a few well-chosen words. Messrs. Lombard and Stow were elected by the Class to the Co-operative Society.

A French dinner was held at Mieusset's French restaurant on Nov. 2, by the Architectural Society. About thirty members attended, and after the coffee a good stock of stories, and the description of life with the summer school in Italy and France by Mr. Buys, enlivened the occasion and added much to the success of the dinner.

Y. M. C. A.

C. M. Lewis, '99 stopped at the Student House, Sunday, Nov. 12th, on his way to New York, from which port he sails on Wednesday, Nov. 15th, for China. At the afternoon meeting he gave a brief outline of the work which he is to take up at the Christian College at Canton.

Following is a schedule of the weekly Bible Classes: Senior Class—Subject, "Old Testament Characters," Wednesday; Junior—"Gospel of John," Thursday; Sophomore—"Life and Epistle of Paul," Thursday; Freshman—"Life of Jesus," Friday. These classes are all held in room 37, Rogers, at 8.15 A. M.

The Mission Study class is held on Tuesday at the same hour and place.

The regular weekly meeting will be held Thursday at 4.10, 11 Rogers this week, instead of Friday, on account of the cane rush.

Musical Clubs.

Owing to a variety of causes, the musical clubs have been slow in getting into form this fall, and full rehearsals have only just begun. This delay is largely due to the fact that an unusual number of men tried for positions on the various clubs, and in order to give all a fair opportunity to show their merit, the new members have been picked by their work in rehearsals, instead of entirely by their performance at the trials. Of the leaders, two are newly elected, and from lack of experience, failed to secure during the summer, sufficient music with which to begin prompt work in the fall. The first scheduled concert is tomorrow night, at West Newton, and is to be followed by a dance. The other concerts thus far booked for this term are: Stoneham High School, Dec. 14; Gloucester High School, Dec. 28. At Gloucester the men will be entertained at a dance and will remain over night as at the concert last year.

The dates for the Wellesley concert and for the Winter Home Concert have not as yet been settled. The proceeds of the Home Concert will probably be given to the fund for the Walker Memorial Gymnasium.

Fresh.—If a Uneeda biscuit is a soda cracker what is an ice-pick?

Soph.—A water-cracker.



The Varsity Football picture will be taken next week.

All men who intend taking part in the annual midwinter games are expected to begin training immediately.

Benj. Morse, captain of last year's Varsity is putting up his usual strong game behind the line for Dedham A. A.


W. R. Collier, manager of the Football Team, has been elected president of the M. I. T. Football Association.

The annual business meeting of the Hare and Hounds Club was held on November 7. O. S. Stockman, '01 was elected Captain and F. H. Hunter, '02, Manager. On account of the rain the run from Wellesley Hills, scheduled for last Saturday, was postponed one week.

We wish to make the following corrections in regard to the Fall Handicap Meet: Baker, '02, not Lowe, won third place in the low hurdles; the two-mile run, accidentally omitted from the summary, added eight points to 1902's total, and one point to that of 1901. The totals by Classes should be: 1901, 53; 1902, 41; 1900, 24; 1903, 16.

A committee of the Athletic Association will shortly begin a canvass of the Freshman Class for new members. Tickets are one dollar apiece and admit the member and ladies to all games held by the Association during the year. The dues for life membership are three dollars. No man can compete in any of the games unless he is a member

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of the Association. Membership in the Association gives those who cannot take an active part in athletics an opportunity to give their support in another way, and it is hoped that there will be a liberal response.

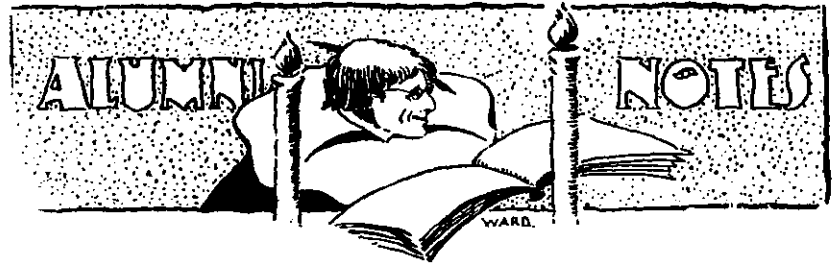
The Freshman-Sophomore Football Game and Cane Rush take place to-morrow at the South End Ball Grounds, beginning at two o'clock. By starting at this hour, it is hoped to finish the rush before dark and avoid all attendant confusion. Every Tech. man should be on hand promptly.

The line-up of the Freshman team on Friday will probably be as follows: l. e., Crocker; l. t., Felton; l. g., Mitchell; c., Mears; r. g., Murray; r. t., Roberts; r. e., Allen; p. b., Hatch; l. h. b., Ray; r. h. b., Nettleton; f. b., Parker (captain). With this team intact 1903 should put up a very good game on Friday.

Some of the latent football interest that was not evident during the Varsity season is now cropping out in various Course teams. Course IX. is soon to line up with Course III. and Course VI., 1900, will give Course IV. a few points on the game. Course VI. went out to Reading for a practice game with the High School and surprised themselves by winning 6-0. Course VI. scored in the first half and McMaster kicked the goal. Course VI. had the ball on the one-yard line when time was called. No scoring was done in the second half.

The Thanksgiving Tech.

The next number of THE TECH will be the regular Thanksgiving issue, and will be especially attractive to all undergraduates. An illustrated cover, a Thanksgiving story, a cartoon by a prominent Technology graduate, and a full account of the Class Football Game and Cane Rush are some of the leading features. This number will make a very neat souvenir of Technology to send home.



'84. D. A. Lylie, III., has been promoted from Captain to Major, U. S. A., ordnance department.

'88. Mr. R. N. Colby, V., has been elected president of the Aurora Metal Co., of Illinois.

'91. Mr. H. I. Cole, II., has left the Atlantic Iron Works to take a position as draughtsman in the department of construction and repair at the Charlestown Navy Yard.

'92. Mr. John J. Vining, IV., is draughting for Allen & Vance, architects, of this city.

'95. Mr. S. S. Clark, VIII., has resigned his instructorship in physics at Lehigh and opened an office as a Christian Science Healer, in Toledo, Ohio.

'97. Mr. Frank W. Everett, VI., has left the Union Iron Works to establish the firm of Field & Everett, engineers, with offices in New York City.

'99. H. J. Skinner, V., is Assistant Instructor at M. I. T.

'99. Mr. Frank F. Fowle, VI., has a position as assistant electrical engineer for the American Telephone and Telegraph Co., of New York City.

Technology Calendar.

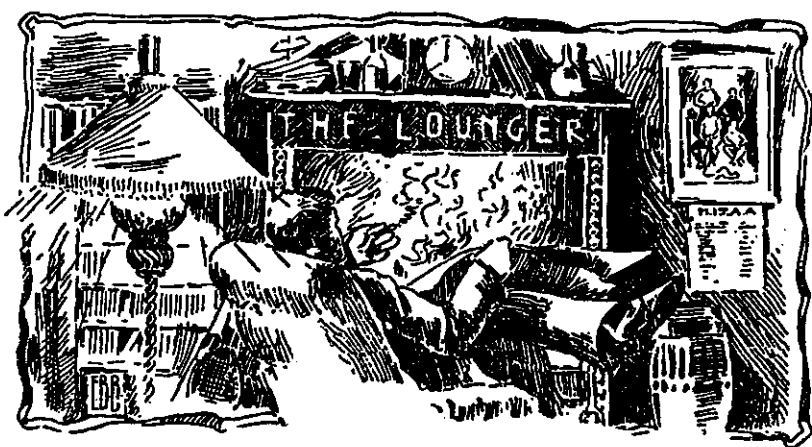
Friday, Nov. 17.—8 P. M. Smoke Talk. Technology Club.

Saturday, Nov. 18.—Hare and Hounds run from Wellesley Hills.

Saturday, Nov. 18.—Gun Club. Wellington. Leave North Union Station 1.46 and 2.45.

Monday, Nov. 10.—Regular Meeting. "Tech" Board. Tech Office.

Thursday, Nov. 23.—8 P. M. Society of Arts. Mr. A. D. Little, chemical engineer, will speak on "New Cellulose Industries." Students interested in the subject are cordially invited. Room 11, Rogers building.



A recent article contributed by THE LOUNGER to a certain popular and invaluable Institute weekly periodical has borne fruit — which has arrived in the form of an answering letter from “A Reader.” The “reader” is, according to the chirography, one of those who profit by the co-educational advantages of Technology. Her letter, THE LOUNGER presents below, annotated here and there by explanatory references supplied editorially by himself.

“The ‘vital question’ raised by THE LOUNGER in the columns of the November 2nd number of THE TECH is one for meditation as well as discussion.

It should be noted that the writer, — who is, up to date at least, also “a reader,” — feels, that the question “is one for meditation as well as discussion.” She proceeds now to the discussion, having decided, obviously, that the preliminary formality of “meditation” should be undertaken by some one else. Further perusal will show that, as usual, it devolves upon THE LOUNGER.

“The inference contained in the last few remarks of THE LOUNGER is perhaps one too flattering and should be somewhat modified. Excellent wives as the Co-ed’s, undoubtedly would make, yet it is felt that this statement would apply more to the world of men outside of Technology than to that within its walls.

THE LOUNGER must interpolate a word or two. This paragraph he cites as proof that his writing did contain an “inference.” As to what this “flattering inference” was, THE LOUNGER pleads innocence. The original “vital question” — of course it is remembered — was this: “If a Tech man makes a good husband, what, Oh what does a Tech Co-ed. make?” “A bad one,” was the answer given by the printer’s devil when the riddle was first propounded; but this cannot be considered “flattering,” nor does THE LOUNGER insist upon its being an “inference” at all. The printer’s devil, when he made this not over-enthusiastic answer, was in a white-hot search for his pet pipe, and as circumstantial evidence directed his suspicions to the typewriter, his opinions cannot be taken as wholly unbiased. Moreover, the “devil” is a single man, and so he was in no position to speak authoritatively on the subject.

Another thing: the last line in the letter above suggests to THE LOUNGER a gentle question. Why

should the “statement” about the Co-ed’s, “apply to a world of men?” The sentence says it should be so. Once it took nine tailors to make a man: now it seems to require a world of men to equal a Co-ed.

The next portion of the letter THE LOUNGER puts in brackets because, so far as it lies in his power to determine, it has nothing to do with the question at issue, and therefore can be omitted with impunity by any who may be in a hurry for a train or anxious to get at the end of this “vital” discussion.

[“It is well known that the subtle flattery of sympathy demanded of and given by the gentler sex, is a necessary lubricant to the wheels of domesticity. It is also well known that, with increasing age, the experience of youth becomes more precious and reminiscences more frequent. It is feared that the freedom and delight of these reminiscences might be somewhat hampered if one party to the conjugal relation should have too accurate a knowledge as to the facts of the other’s four all-important years of youth. This condition of affairs might even prove fatal to the matrimonial calm by introducing too lively a source of contradiction, or on the other hand, it might merely rob the relationship of one of its necessary charms.] Possibly this point of view had not occurred to the cheerful LOUNGER.

No: THE LOUNGER cheerfully admits that it had not; nor indeed has it occurred to him up to the present time. This is, however, an age of the miraculous, and he has hopes that he may be able to grasp it some time in the near future.

“In all events, it is hoped that it will not come as a shock to any of the sterner students of Technology. Should it do so, let them be reminded that in the greater co-education there are many anomalies of person and circumstance.

It is for one of these “anomalies of circumstance” that THE LOUNGER is waiting, to be able to comprehend the general drift of this letter. Concerning the “anomalies of person,” he feels already convinced. The letter now closes with:

“Doubtless, to many who have been taking their co-educational burdens too seriously, the above consideration will come as a welcome and well-deserved relief.”

The first thing THE LOUNGER wishes to say is that, so far as the letter itself goes, as a whole, he gives it up. It is a very good one — in its line — but it’s rather unfair to spring a puzzle like that on one all at once and without some sort of warning. It is, doubtless, capable of solution; probably there is a hidden key; it is possible that a point is there; but “Applied” and the Editor-in-Chief do not allow him time to probe for it.

THE LOUNGER would venture the statement that he was glad to get the letter, for it showed, conclusively, that he had “a reader,” — that one person, at least, perused one part, at least, of such of his wisdom as was to be found in one issue, at least, of THE TECH. This convinces him that he has not burnt genius and spilt ink to no purpose. As for the writer, — the fair writer (may THE LOUNGER venture it?), — he acknowledges complete conviction. Never before did he see so clearly the need of “greater co-education.”

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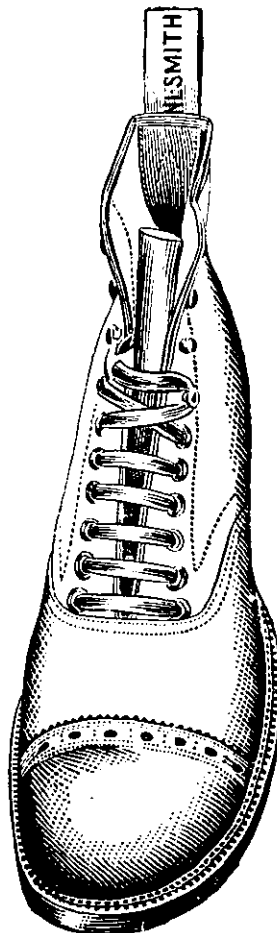
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Park Theatre. — James A. Herne will continue to appear in his last play, "Sag Harbor." This is considered to be the best play he has produced. Every person who sees "Sag Harbor" is delighted with it.

Tremont Theatre. — R. A. Barnet's musical comedy, "Three Little Lambs," will continue to be played, only some new features are to be seen in the play since its first appearance here this season. These are sure to be a great improvement.

Boston Museum. — The well-known comedy by William Gillette, which was such a success in Boston last year, "Because She Loved Him So," will run for a limited engagement. It is sure to be as great a success as last year.

Boston Theatre. — Denman Thompson will appear in his famous play, "The Old Homestead." This is a play which every person who has not seen should now not miss the opportunity of seeing.

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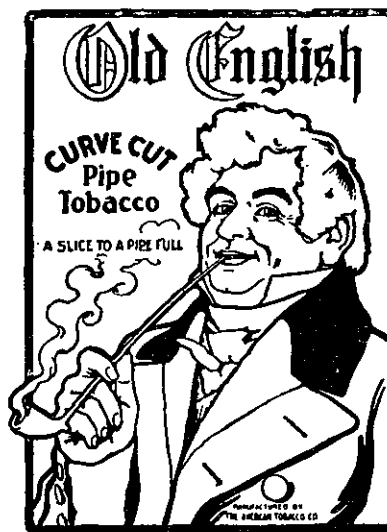
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